

WHAT IS CLAIMED IS:

1. A charge pump type power supply circuit comprising:  
a plurality of switches; and  
5 a plurality of capacitors, wherein  
a supply voltage is generated by switch controlling said  
plurality of switches and boosting ~~the~~<sup>an</sup> input voltage to a voltage  
of n times or -n times the input voltage based on a power supply  
clock produced by an integrated circuit using a predetermined system  
10 clock, said integrated circuit being operated using said system  
clock.

2. A charge pump type power supply circuit according to claim 1,  
wherein

15 said integrated circuit suspends the generation of said power  
supply clock in response to a power save control instruction; and  
said power supply circuit suspends the generation of said  
supply voltage in response to the suspension of said power supply  
clock.

20 3. A driving apparatus for a display device, comprising:

a driving circuit for generating a signal to allow a display  
section to display, said driving circuit being operated using a  
predetermined system clock; and

25 a charge pump type power supply circuit for generating a  
supply voltage for a display device by boosting the input voltage  
to a voltage n times or -n times said input voltage, said power  
supply circuit including a plurality of switches and a plurality  
of capacitors; wherein

said driving circuit generates a power supply clock using said system clock; and

said power supply circuit generates said supply voltage by switch controlling said plurality of switches based on said power supply clock.

4. A driving apparatus for a display device according to claim 3, wherein,

said driving circuit suspends the generation of said power supply clock in response to a power save control instruction; and

said power supply circuit suspends the generation of said supply voltage in response to the suspension of the supply of said power supply clock.

5. A display device having a display section and a driving apparatus for driving the display section, wherein

said driving apparatus comprising:

a driving circuit for generating a signal to allow the display section to display, said driving circuit being operated using a predetermined system clock; and

a charge pump type power supply circuit for generating a supply voltage for said display device by boosting the input voltage to a voltage  $n$  times or  $-n$  times the input voltage, said charge pump type power supply circuit having a plurality of switches and a plurality of capacitors, wherein

said driving circuit further generates a power supply clock using said system clock and suspends the generation of said power supply clock based on a power save control instruction; and

said power supply circuit generates said supply voltage by

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